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(71) Applicant (for all designated States except US): PROTA-SIS CORPORATION [US/US]; 734 Forest Street, Marlborough, MA 01752 (US).

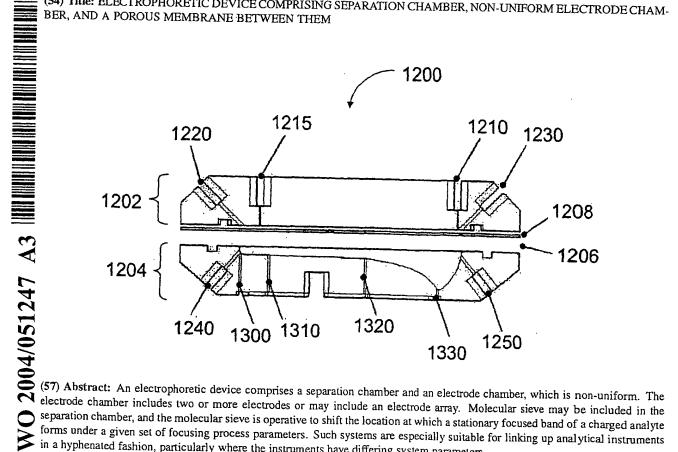
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): STRAND, David

[US/US]; 16 Nason Hill Lane, Sherborn, MA 01770 (US). LEATZOW, Dan, M. [US/US]; 1345 NE Terreview Drive, Section D, Pullman, WA 99163-5101 (US).

- (74) Agents: MCDERMOTT, Peter, D. et al.; Banner & Witcoff, Ltd., 28 State St., Twenty Eighth Floor, Boston, MA 02109-1775 (US).
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[Continued on next page]

(54) Title: ELECTROPHORETIC DEVICE COMPRISING SEPARATION CHAMBER, NON-UNIFORM ELECTRODE CHAM-BER, AND A POROUS MEMBRANE BETWEEN THEM



forms under a given set of focusing process parameters. Such systems are especially suitable for linking up analytical instruments in a hyphenated fashion, particularly where the instruments have differing system parameters.

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INTERNATIONAL SEARCH REPORT

Interponal Application No PCT/US 03/38170

A. CLASSIFICATION OF SUBJECT MATTER 1PC 7 GO1N27/447

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 GOIN

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Χ .	US 5 298 143 A (IVORY CORNELIUS F ET AL) 29 March 1994 (1994-03-29)	1,5-8, 10,11, 17-23, 26, 28-33, 39-53, 55-58, 62-65, 68-75,
Y	column 10, line 23 - line 60; figure 20	83,84 9,13-16, 59-61, 66,67
-	-/ ⁻	

X Further documents are listed in the continuation of box C.	χ Patent tamily members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority clalm(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the International filing date but later than the priority date daimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered nowel or cannot be considered too involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the International search	Date of mailing of the international search report
16 July 2004	2 6. 07. 2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fex: (+31–70) 340–3016	Authorized officer Wilhelm, J

Form PCT/ISA/210 (second sheet) (January 2004)

IMMERNATIONAL SEARCH REPORT

Intentional Application No PCT/US 03/38170

		PCT/US 03/38170	
	etion) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
χ .	US 2002/043462 Al (HUANG ZHENG ET AL) 18 April 2002 (2002-04-18)	21-23, 26,27, 32, 34-46, 50,52, 54-56, 71-84	
'	paragraphs '0052!, '0112!, '0113!, '0144!; claims 15,43; figures 1,2	9,13-16, 59-61, 66,67	
X .	KOEGLER WENDY S ET AL: "Field gradient focusing: A novel method for protein separation" BIOTECHNOLOGY PROGRESS, vol. 12, no. 6, 1996, pages 822-836, XP002277720 ISSN: 8756-7938	1,5-8, 10,11, 17-23, 26, 28-33, 39-53, 55-57, 62-65, 68,70	
	abstract; figures 2,7	00,70	
Α .	IVORY C F ET AL: "CONTINUOUS COUNTERACTING CHROMATOGRAPHIC ELECTROPHORESIS" BIOTECHNOLOGY PROGRESS, vol. 6, no. 1, 1990, pages 21-32, XP002277721 ISSN: 8756-7938 figures 1,4,6,10,12	9,13-16, 35-38, 59-61, 77-82	
X	US 5 582 705 A (LI QINGBO ET AL) 10 December 1996 (1996-12-10) figure 1	21,24, 25, 71-73, 85,86	
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X .	EP 1 044 716 A (CAHILL MICHAEL DR; NORDHEIM ALFRED PROF DR (DE); DRUKIER ANDRZEY DR () 18 October 2000 (2000-10-18) figure 3	21,24, 25, 71-73, 85,86	
	-	<u>:</u>	

INTERNATIONAL SEARCH REPORT

PCT/US 03/38170

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з. [Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	national Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3 <i>A</i>	s only some of the required additional search fees were timely paid by the applicant, this International Search Report overs only those claims for which fees were paid, specifically claims Nos.:
4.	lo required additional search fees were timely paid by the applicant. Consequently, this International Search Report is estricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-20, 57-70

Electrophoretic device with separation chamber, non-uniform electrophoresis chamber, and porous membrane between them

2. claims: 21-56, 71-86

Electrophoresis device with sample treatment devices at the inlet and the outlet of the separation chamber $% \left(1\right) =\left(1\right) \left(1\right) \left($

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INERNATIONAL SEARCH REPORT

"Information on patent family members

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